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PASSWORD:

TERMINAL (ENTER 1, 2, 3, OR ?):2

\* \* \* \* \* Welcome to STN International \* \* \* \* \*

NEWS	1		Web Page for STN Seminar Schedule - N. America
NEWS	2	AUG 15	CAOLD to be discontinued on December 31, 2008
NEWS	3	OCT 07	EPFULL enhanced with full implementation of EPC2000
NEWS	4	OCT 07	Multiple databases enhanced for more flexible patent number searching
NEWS	5	OCT 22	Current-awareness alert (SDI) setup and editing enhanced
NEWS	6	OCT 22	WPIDS, WPINDEX, and WPIX enhanced with Canadian PCT Applications
NEWS	7	OCT 24	CHEMLIST enhanced with intermediate list of pre-registered REACH substances
NEWS	8	NOV 21	CAS patent coverage to include exemplified prophetic substances identified in English-, French-, German-, and Japanese-language basic patents from 2004-present
NEWS	9	NOV 26	MARPAT enhanced with FSORT command
NEWS	10	NOV 26	MEDLINE year-end processing temporarily halts availability of new fully-indexed citations
NEWS	11	NOV 26	CHEMSAFE now available on STN Easy
NEWS	12	NOV 26	Two new SET commands increase convenience of STN searching
NEWS	13	DEC 01	ChemPort single article sales feature unavailable
NEWS	14	DEC 12	GBFULL now offers single source for full-text coverage of complete UK patent families
NEWS	15	DEC 17	Fifty-one pharmaceutical ingredients added to PS
NEWS	16	JAN 06	The retention policy for unread STNmail messages will change in 2009 for STN-Columbus and STN-Tokyo

NEWS EXPRESS JUNE 27 08 CURRENT WINDOWS VERSION IS V8.3,  
AND CURRENT DISCOVER FILE IS DATED 23 JUNE 2008.

NEWS HOURS	STN Operating Hours Plus Help Desk Availability
NEWS LOGIN	Welcome Banner and News Items
NEWS IPC8	For general information regarding STN implementation of IPC 8

Enter NEWS followed by the item number or name to see news on that specific topic.

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\* \* \* \* \* STN Columbus \* \* \* \* \*

FILE 'HOME' ENTERED AT 13:20:06 ON 06 JAN 2009

=> file reg

COST IN U.S. DOLLARS

SINCE FILE

TOTAL

	ENTRY	SESSION
FULL ESTIMATED COST	0.22	0.22

FILE 'REGISTRY' ENTERED AT 13:20:14 ON 06 JAN 2009  
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Property values tagged with IC are from the ZIC/VINITI data file  
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STRUCTURE FILE UPDATES: 5 JAN 2009 HIGHEST RN 1092651-12-1  
DICTIONARY FILE UPDATES: 5 JAN 2009 HIGHEST RN 1092651-12-1

New CAS Information Use Policies, enter HELP USAGETERMS for details.

TSCA INFORMATION NOW CURRENT THROUGH July 5, 2008.

Please note that search-term pricing does apply when  
conducting SmartSELECT searches.

REGISTRY includes numerically searchable data for experimental and  
predicted properties as well as tags indicating availability of  
experimental property data in the original document. For information  
on property searching in REGISTRY, refer to:

<http://www.cas.org/support/stngen/stndoc/properties.html>

=>

Uploading C:\Program Files\Stnexp\Queries\10525198\_amine.str

L1 STRUCTURE UPLOADED

=>

Uploading C:\Program Files\Stnexp\Queries\10525198\_spirofluorene.str

L2 STRUCTURE UPLOADED

=>

Uploading C:\Program Files\Stnexp\Queries\10525198\_difluorene2.str

L3 STRUCTURE UPLOADED

=>

Uploading C:\Program Files\Stnexp\Queries\10525198\_difluorene3.str

L4 STRUCTURE UPLOADED

=> s l1 sss ful

FULL SEARCH INITIATED 13:22:14

FULL SCREEN SEARCH COMPLETED - 58897 TO ITERATE

100.0% PROCESSED 58897 ITERATIONS

144 ANSWERS

SEARCH TIME: 00.00.01

L5 144 SEA SSS FUL L1

=> s l2 sss ful

FULL SEARCH INITIATED 13:22:22

FULL SCREEN SEARCH COMPLETED - 24939 TO ITERATE

100.0% PROCESSED 24939 ITERATIONS

2092 ANSWERS

SEARCH TIME: 00.00.01

L6 2092 SEA SSS FUL L2

=> s l3 sss ful  
FULL SEARCH INITIATED 13:22:28  
FULL SCREEN SEARCH COMPLETED - 467534 TO ITERATE

100.0% PROCESSED 467534 ITERATIONS 3224 ANSWERS  
SEARCH TIME: 00.00.11

L7 3224 SEA SSS FUL L3

=> polylink l7

L8 3345 POLYLINK L7

=> s l4 sss ful  
FULL SEARCH INITIATED 13:23:01  
FULL SCREEN SEARCH COMPLETED - 467534 TO ITERATE

100.0% PROCESSED 467534 ITERATIONS 97 ANSWERS  
SEARCH TIME: 00.00.10

L9 97 SEA SSS FUL L4

=> polyline l9  
POLYLINE IS NOT A RECOGNIZED COMMAND  
The previous command name entered was not recognized by the system.  
For a list of commands available to you in the current file, enter  
"HELP COMMANDS" at an arrow prompt (=>).

=> polylink l9

L10 97 POLYLINK L9

=> dis his

(FILE 'HOME' ENTERED AT 13:20:06 ON 06 JAN 2009)

FILE 'REGISTRY' ENTERED AT 13:20:14 ON 06 JAN 2009

L1	STRUCTURE UPLOADED
L2	STRUCTURE UPLOADED
L3	STRUCTURE UPLOADED
L4	STRUCTURE UPLOADED
L5	144 S L1 SSS FUL
L6	2092 S L2 SSS FUL
L7	3224 S L3 SSS FUL
L8	3345 POLYLINK L7
L9	97 S L4 SSS FUL
L10	97 POLYLINK L9

=> file hcaplus uspatfull  
COST IN U.S. DOLLARS

	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	809.33	809.55

FILE 'HCAPLUS' ENTERED AT 13:23:50 ON 06 JAN 2009  
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COPYRIGHT (C) 2009 AMERICAN CHEMICAL SOCIETY (ACS)

FILE 'USPATFULL' ENTERED AT 13:23:50 ON 06 JAN 2009  
CA INDEXING COPYRIGHT (C) 2009 AMERICAN CHEMICAL SOCIETY (ACS)

=> s l5 and l6

FILE 'HCAPLUS'  
79 L5  
915 L6  
L11 4 L5 AND L6

FILE 'USPATFULL'  
44 L5  
308 L6  
L12 6 L5 AND L6

TOTAL FOR ALL FILES  
L13 10 L5 AND L6

=> s l5 and l8  
FILE 'HCAPLUS'  
79 L5  
754 L8  
L14 8 L5 AND L8

FILE 'USPATFULL'  
44 L5  
139 L8  
L15 10 L5 AND L8

TOTAL FOR ALL FILES  
L16 18 L5 AND L8

=> s l5 and l10  
FILE 'HCAPLUS'  
79 L5  
49 L10  
L17 0 L5 AND L10

FILE 'USPATFULL'  
44 L5  
12 L10  
L18 0 L5 AND L10

TOTAL FOR ALL FILES  
L19 0 L5 AND L10

=> dup remove l13  
PROCESSING COMPLETED FOR L13  
L20 10 DUP REMOVE L13 (0 DUPLICATES REMOVED)  
ANSWERS '1-4' FROM FILE HCAPLUS  
ANSWERS '5-10' FROM FILE USPATFULL

=> dup remove l16  
PROCESSING COMPLETED FOR L16  
L21 17 DUP REMOVE L16 (1 DUPLICATE REMOVED)  
ANSWERS '1-8' FROM FILE HCAPLUS  
ANSWERS '9-17' FROM FILE USPATFULL

=> dis l20 1-4 bib ab hit

L20 ANSWER 1 OF 10 HCAPLUS COPYRIGHT 2009 ACS on STN  
AN 2008:585481 HCAPLUS  
DN 148:526394  
TI Organic EL material-containing solution, method for synthesizing organic EL material, compound synthesized by the synthesizing method, method for forming thin film of organic EL material, thin film of organic EL material, and organic EL device  
IN Kubota, Mineyuki; Ito, Mitsunori; Inoue, Tetsuya  
PA Idemitsu Kosan Co., Ltd., Japan  
SO PCT Int. Appl., 44pp.

CODEN: PIXXD2

DT Patent  
LA Japanese  
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2008056652	A1	20080515	WO 2007-JP71530	20071106
	W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BH, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DO, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LY, MA, MD, ME, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, SV, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW				
	RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, MT, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
	US 20080118776	A1	20080522	US 2007-936397	20071107
PRAI	JP 2006-304629	A	20061109		

AB Disclosed is an organic electroluminescent (EL) material-containing solution, which

contains an organic EL material and a solvent. The organic EL material contains a host and a dopant, and the host has an organic EL functional moiety composed of a low mol. weight organic EL material, and a solubilization moiety which is joined to the organic EL functional moiety for solubilizing the low mol. weight organic EL material into the solvent. The solubilization moiety is a mol. chain formed by polymerization of a base unit, and the host is an oligomer.

RE.CNT 12 THERE ARE 12 CITED REFERENCES AVAILABLE FOR THIS RECORD  
ALL CITATIONS AVAILABLE IN THE RE FORMAT

IT 108-88-3, Toluene, uses 693289-38-2  
RL: MOA (Modifier or additive use); TEM (Technical or engineered material use); USES (Uses)  
(organic electroluminescent material-containing solution for forming thin film of organic electroluminescent device)  
IT 911390-78-8 1022160-24-2 1022160-26-4 1022160-28-6  
RL: RCT (Reactant); RACT (Reactant or reagent)  
(organic electroluminescent material-containing solution for forming thin film of organic electroluminescent device)  
IT 1022160-25-3P 1022160-27-5P 1022160-29-7P  
RL: SPN (Synthetic preparation); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)  
(organic electroluminescent material-containing solution for forming thin film of organic electroluminescent device)

L20 ANSWER 2 OF 10 HCAPLUS COPYRIGHT 2009 ACS on STN  
AN 2006:463243 HCAPLUS  
DN 144:479288  
TI Organic electroluminescent element  
IN Funahashi, Masakazu; Ito, Mitsunori; Kawamura, Hisayuki  
PA Idemitsu Kosan Co., Ltd., Japan  
SO PCT Int. Appl., 86 pp.  
CODEN: PIXXD2

DT Patent  
LA Japanese  
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2006051649	A1	20060518	WO 2005-JP16749	20050912

W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, KE, KG, KM, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW

RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM

JP 2006140235 A 20060601 JP 2004-327019 20041110  
EP 1811585 A1 20070725 EP 2005-782401 20050912

R: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LI, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR

CN 101057348 A 20071017 CN 2005-80038089 20050912  
US 20060110623 A1 20060525 US 2005-269661 20051109  
KR 2007084110 A 20070824 KR 2007-710523 20070509  
IN 2007CN02009 A 20070907 IN 2007-CN2009 20070510

PRAI JP 2004-327019 A 20041110  
WO 2005-JP16749 W 20050912

OS MARPAT 144:479288

AB An organic electroluminescent element which has excellent heat resistance, a long life, and a high luminescent efficiency and can emit a blue to red light. The organic electroluminescent element comprises a cathode, an anode, and an organic thin film sandwiched there-between which comprises one or more layers at least including a luminescent layer, the luminescent layer comprising a fluorene compound having a specific structure and an amine compound having a specific structure.

RE.CNT 9 THERE ARE 9 CITED REFERENCES AVAILABLE FOR THIS RECORD  
ALL CITATIONS AVAILABLE IN THE RE FORMAT

IT 607739-80-0 607739-82-2 872705-53-8 872705-55-0 886456-80-0  
886456-81-1 886456-82-2, 1,2':7',1''-Terpyrene 886456-89-9  
RL: DEV (Device component use); USES (Uses)  
(organic electroluminescent devices having excellent heat resistance)  
IT 177799-15-4 279672-22-9 462631-35-2 494834-20-7  
693289-38-2 886456-83-3 886456-84-4 886456-85-5  
886456-88-8  
RL: MOA (Modifier or additive use); USES (Uses)  
(organic electroluminescent devices having excellent heat resistance)

L20 ANSWER 3 OF 10 HCAPLUS COPYRIGHT 2009 ACS on STN

AN 2004:182957 HCAPLUS

DN 140:243296

TI Organic electroluminescent devices and organic luminescent medium

IN Matsuura, Masahide; Funahashi, Masakazu; Fukuoka, Kenichi; Hosokawa, Chishio

PA Idemitsu Kosan Co., Ltd., Japan

SO PCT Int. Appl., 77 pp.

CODEN: PIXXD2

DT Patent

LA Japanese

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2004018588	A1	20040304	WO 2003-JP8463	20030703
	W: CN, JP, KR				
	RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR				
	EP 1541657	A1	20050615	EP 2003-738656	20030703
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, FI, RO, CY, TR, BG, CZ, EE, HU, SK				
	CN 1842234	A	20061004	CN 2006-10067808	20030703
	CN 101068041	A	20071107	CN 2007-10101150	20030703

	TW 278248	B	20070401	TW 2003-92118623	20030708
	US 20050064233	A1	20050324	US 2003-617397	20030711
	US 20060033421	A1	20060216	US 2005-207933	20050822
	US 20070237984	A1	20071011	US 2007-761437	20070612
	JP 2008205491	A	20080904	JP 2008-75542	20080324
	JP 2008291263	A	20081204	JP 2008-159055	20080618
PRAI	JP 2002-211308	A	20020719		
	CN 2003-817301	A3	20030703		
	JP 2004-530527	A3	20030703		
	WO 2003-JP8463	W	20030703		
	US 2003-617397	A3	20030711		
	US 2005-207933	A1	20050822		

OS MARPAT 140:243296

AB An organic electroluminescent device comprises a pair of electrodes and an organic luminescent medium layer which is placed between the electrodes and contains (A) a specific arylamine and (B) at least one compound selected from among specific anthracene derivs., spiro fluorene derivs., fused-ring compds., and metal complexes; and an organic luminescent medium containing the components (A) and (B). The organic electroluminescent device exhibits high color purity, excellent heat resistance and a long lifetime and emits blue to yellow light at high efficiency, and the organic luminescent medium is suitable for use in such devices.

RE.CNT 23 THERE ARE 23 CITED REFERENCES AVAILABLE FOR THIS RECORD

ALL CITATIONS AVAILABLE IN THE RE FORMAT

IT	76656-53-6	122648-99-1	131625-67-7	171408-93-8	172285-79-9
	172285-83-5	220721-68-6	244281-01-4	279672-22-9	
	349666-25-7	400606-81-7	475461-15-5	668019-24-7	668019-64-5
	668019-76-9	668019-96-3	668020-07-3	668020-14-2	
	668020-20-0	668020-26-6	668020-28-8	668020-34-6	668020-39-1
	668020-46-0	668020-53-9	668020-61-9	668020-67-5	668020-74-4
	668020-81-3	668020-88-0			

RL: DEV (Device component use); USES (Uses)

(organic electroluminescent devices and organic luminescent medium)

L20 ANSWER 4 OF 10 HCAPLUS COPYRIGHT 2009 ACS on STN

AN 2003:317922 HCAPLUS

DN 138:347368

TI High electron-mobility and high ON/OFF-current-ratio organic thin-film transistors

IN Higashiguchi, Itaru; Oda, Atsushi; Ishikawa, Hitoshi

PA NEC Corp., Japan

SO Jpn. Kokai Tokkyo Koho, 77 pp.

CODEN: JKXXAF

DT Patent

LA Japanese

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 2003124472	A	20030425	JP 2001-320342	20011018
	JP 3823312	B2	20060920		
	US 6747287	B1	20040608	US 2002-272962	20021017
	CN 1412864	A	20030423	CN 2002-147242	20021018
	CN 1230925	C	20051207		
PRAI	JP 2001-320342	A	20011018		

AB The title organic TFTs contain X[NAr1Ar2]<sub>n</sub> {Ar1, Ar2 = C6-20 (substd.) aromatic hydrocarbon or aromatic heterocyclic group, wherein Ar1 and Ar2 may bonded together to form a ring each other; X = 1-4 valent (substd.) C6-34 condensed aromatic hydrocarbon group compound}. The organic compds. give TFTs high electron mobility and high ON/OFF-current-ratio.

IT	148077-52-5	177799-16-5	178562-07-7	227010-23-3	243847-56-5
	252646-51-8	259220-14-9	278174-16-6	345658-49-3	345658-55-1
	384343-74-2	384343-78-6	394656-41-8	426218-15-7	426218-23-7
	426218-25-9	426218-28-2	426218-33-9	426218-35-1	515832-99-2
	515833-00-8	515833-01-9	515833-02-0	515833-03-1	515833-04-2
	515833-05-3	515833-06-4	515833-07-5	515833-08-6	515833-09-7

515833-10-0	515833-11-1	515833-12-2	515833-13-3	
515833-14-4	515833-15-5	515833-16-6	515833-17-7	515833-18-8
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515833-28-0	515833-29-1	515833-30-4	515833-31-5	515833-32-6
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515833-38-2	515833-39-3	515833-40-6	515833-41-7	
515833-42-8	515833-43-9	515833-44-0	515833-45-1	515833-46-2
515833-47-3	515833-48-4	515833-49-5	515833-50-8	515833-51-9
515833-52-0	515833-53-1	515833-54-2	515833-55-3	515833-56-4
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515833-61-1	515833-62-2	515833-63-3	515833-64-4	515833-65-5
515833-66-6	515833-67-7	515833-68-8	515833-69-9	515833-70-2
515833-71-3	515833-72-4	515833-73-5	515833-74-6	515833-75-7
515833-76-8	515833-77-9	515833-78-0	515833-79-1	
515833-80-4	515833-81-5	515833-82-6	515833-83-7	515833-84-8
515833-85-9	515833-86-0	515833-87-1	515833-88-2	515833-89-3
515833-90-6	515833-91-7	515833-92-8	515833-93-9	
515833-94-0	515833-95-1	515833-96-2	515833-97-3	
515833-98-4	515833-99-5	515834-00-1	515834-01-2	515834-02-3
515834-03-4	515834-04-5	515834-05-6	515834-06-7	515834-07-8
515834-08-9	515834-09-0	515834-10-3	515834-11-4	
515834-12-5	515834-13-6	515834-14-7	515834-15-8	515834-16-9
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515834-39-6	515834-40-9	515834-41-0	515834-42-1	
515834-43-2	515834-44-3	515834-45-4	515834-46-5	515834-47-6
515834-49-8	515834-51-2	515834-53-4	515834-55-6	
515834-57-8	515834-59-0	515834-61-4	515834-63-6	
515834-65-8	515834-67-0	515834-70-5	515834-72-7	
515834-73-8	515834-75-0	515834-79-4		
515834-81-8	515834-82-9	515834-83-0	515834-84-1	

RL: DEV (Device component use); PRP (Properties); TEM (Technical or engineered material use); USES (Uses)

(high electron-mobility and high ON/OFF-current-ratio organic aromatic-heterocyclic compound thin-film transistors)

=> dis 120 5-10 bib ab

L20 ANSWER 5 OF 10 USPATFULL on STN

AN 2008:136707 USPATFULL

TI ORGANIC-ELECTROLUMINESCENCE-MATERIAL-CONTAINING SOLUTION, METHOD FOR SYNTHESIZING ORGANIC ELECTROLUMINESCENCE MATERIAL, COMPOUND SYNTHESIZED BY THE METHOD, THIN FILM OF ORGANIC ELECTROLUMINESCENCE MATERIAL AND ORGANIC ELECTROLUMINESCENCE DEVICE

IN KUBOTA, Mineyuki, Sodegaura-shi, JAPAN

Ito, Mitsunori, Sodegaura-shi, JAPAN

Inoue, Tetsuya, Sodegaura-shi, JAPAN

PA IDEMITSU KOSAN CO., LTD., Chiyoda-ku, JAPAN (non-U.S. corporation)

PI US 20080118776 A1 20080522

AI US 2007-936397 A1 20071107 (11)

PRAI JP 2006-304629 20061109

DT Utility

FS APPLICATION

LREP OBLON, SPIVAK, MCCLELLAND MAIER & NEUSTADT, P.C., 1940 DUKE STREET, ALEXANDRIA, VA, 22314, US

CLMN Number of Claims: 11

ECL Exemplary Claim: 1

DRWN No Drawings

LN.CNT 1531

CAS INDEXING IS AVAILABLE FOR THIS PATENT.



AB An organic electroluminescent material-containing solution contains an organic electroluminescent material and a solvent. The organic electroluminescent material contains a host and a dopant. The host includes: an organic electroluminescence-functional portion formed of a low-molecular organic electroluminescent material; and a soluble portion bonded to the organic electroluminescence-functional portion so as to solubilize the low-molecular organic electroluminescent material in the solvent. The soluble portion is a molecular chain formed by polymerizing basic units and the host is an oligomer.

L20 ANSWER 6 OF 10 USPATFULL on STN

AN 2007:271758 USPATFULL

TI ORGANIC ELECTROLUMINESCENCE DEVICE AND ORGANIC LIGHT EMITTING MEDIUM

IN MATSUURA, Masahide, Sodegaura-shi, JAPAN

Funahashi, Masakazu, Sodegaura-shi, JAPAN

Fukuoka, Kenichi, Sodegaura-shi, JAPAN

Hosokawa, Chishio, Sodegaura-shi, JAPAN

PA Idemitsu Kosan Co., Ltd., Chiyoda-ku, JAPAN (non-U.S. corporation)

PI US 20070237984 A1 20071011

AI US 2007-761437 A1 20070612 (11)

RLI Continuation of Ser. No. US 2005-207933, filed on 22 Aug 2005, PENDING

Division of Ser. No. US 2003-617397, filed on 11 Jul 2003, PENDING

PRAI JP 2002-211308 20020719

DT Utility

FS APPLICATION

LREP OBLON, SPIVAK, MCCLELLAND, MAIER & NEUSTADT, P.C., 1940 DUKE STREET,

ALEXANDRIA, VA, 22314, US

CLMN Number of Claims: 22

ECL Exemplary Claim: 1

DRWN No Drawings

LN.CNT 1533

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB An organic electroluminescence device having a layer of an organic light emitting medium which comprises (A) a specific arylamine compound and (B) at least one compound selected from specific anthracene derivatives, spirofluorene derivatives, compounds having condensed rings and metal complex compounds and is disposed between a pair of electrodes and an organic light emitting medium comprising the above components (A) and (B) are provided. The organic electroluminescence device exhibits a high purity of color, has excellent heat resistance and a long life and efficiently emits bluish to yellowish light. The organic light emitting medium can be advantageously used for the organic electroluminescence device.

L20 ANSWER 7 OF 10 USPATFULL on STN

AN 2006:130985 USPATFULL

TI Organic electroluminescence devices

IN Funahashi, Masakazu, Chiba, JAPAN

Ito, Mitsunori, Chiba, JAPAN

Kawamura, Hisayuki, Chiba, JAPAN

PA Idemitsu Kosan Co., LTD., Chiyoda-ku, JAPAN (non-U.S. corporation)

PI US 20060110623 A1 20060525

AI US 2005-269661 A1 20051109 (11)

PRAI JP 2004-327019 20041110

DT Utility

FS APPLICATION

LREP STEPTOE & JOHNSON LLP, 1330 CONNECTICUT AVENUE, N.W., WASHINGTON, DC,

20036, US

CLMN Number of Claims: 12

ECL Exemplary Claim: 1

DRWN No Drawings

LN.CNT 1644

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB An organic electro-luminescent device exhibiting an excellent heat resistance, a long serving life and a great efficiency of light emission

and producing a light emission ranging from a blue light to a red light. The organic electroluminescent device comprising one or more thin-film layers which contain at least a light emitting layer and are interposed between a cathode and an anode, wherein the light emitting layer contains an amine compound represented by any of the following general formula (A) and a fluorene-based compound represented by any of the following general formula (B).

L20 ANSWER 8 OF 10 USPATFULL on STN

AN 2006:38775 USPATFULL

TI Organic electroluminescence device and organic light emitting medium

IN Matsuura, Masahide, Chiba, JAPAN

Funahashi, Masakazu, Chiba, JAPAN

Fukuoka, Kenichi, Chiba, JAPAN

Hosokawa, Chishio, Chiba, JAPAN

PA Idemitsu Kosan Co., Ltd., Tokyo, JAPAN (non-U.S. corporation)

PI US 20060033421 A1 20060216

AI US 2005-207933 A1 20050822 (11)

RLI Division of Ser. No. US 2003-617397, filed on 11 Jul 2003, PENDING

PRAI JP 2002-211308 20020719

DT Utility

FS APPLICATION

LREP OBLON, SPIVAK, MCCLELLAND, MAIER & NEUSTADT, P.C., 1940 DUKE STREET,

ALEXANDRIA, VA, 22314, US

CLMN Number of Claims: 16

ECL Exemplary Claim: 1

DRWN No Drawings

LN.CNT 1381

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB An organic electroluminescence device having a layer of an organic light emitting medium which comprises (A) a specific arylamine compound and (B) at least one compound selected from specific anthracene derivatives, spirofluorene derivatives, compounds having condensed rings and metal complex compounds and is disposed between a pair of electrodes and an organic light emitting medium comprising the above components (A) and (B) are provided. The organic electroluminescence device exhibits a high purity of color, has excellent heat resistance and a long life and efficiently emits bluish to yellowish light. The organic light emitting medium can be advantageously used for the organic electroluminescence device.

L20 ANSWER 9 OF 10 USPATFULL on STN

AN 2005:74938 USPATFULL

TI Organic electroluminescence device and organic light emitting medium

IN Matsuura, Masahide, Chiba, JAPAN

Funahashi, Masakazu, Chiba, JAPAN

Fukuoka, Kenichi, Chiba, JAPAN

Hosokawa, Chishio, Chiba, JAPAN

PA Idemitsu Kosan Co., Ltd., Tokyo, JAPAN (non-U.S. corporation)

PI US 20050064233 A1 20050324

AI US 2003-617397 A1 20030711 (10)

PRAI JP 2002-211308 20020719

DT Utility

FS APPLICATION

LREP OBLON, SPIVAK, MCCLELLAND, MAIER & NEUSTADT, P.C., 1940 DUKE STREET,

ALEXANDRIA, VA, 22314

CLMN Number of Claims: 17

ECL Exemplary Claim: 1

DRWN No Drawings

LN.CNT 1476

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB An organic electroluminescence device having a layer of an organic light emitting medium which comprises (A) a specific arylamine compound and (B) at least one compound selected from specific anthracene derivatives, spirofluorene derivatives, compounds having condensed rings and metal

complex compounds and is disposed between a pair of electrodes and an organic light emitting medium comprising the above components (A) and (B) are provided. The organic electroluminescence device exhibits a high purity of color, has excellent heat resistance and a long life and efficiently emits bluish to yellowish light. The organic light emitting medium can be advantageously used for the organic electroluminescence device.

L20 ANSWER 10 OF 10 USPATFULL on STN  
 AN 2004:141258 USPATFULL  
 TI Organic thin film transistor  
 IN Toguchi, Satoru, Tokyo, JAPAN  
 Oda, Atsushi, Tokyo, JAPAN  
 Ishikawa, Hitoshi, Tokyo, JAPAN  
 PA NEC Corporation, Tokyo, JAPAN (non-U.S. corporation)  
 PI US 6747287 B1 20040608  
 AI US 2002-272962 20021017 (10)  
 PRAI JP 2001-320342 20011018  
 DT Utility  
 FS GRANTED  
 EXNAM Primary Examiner: Niebling, John F.; Assistant Examiner: Isaac, Stanetta  
 LREP Scully, Scott, Murphy & Presser  
 CLMN Number of Claims: 21  
 ECL Exemplary Claim: 1  
 DRWN 3 Drawing Figure(s); 3 Drawing Page(s)  
 LN.CNT 1681

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB An organic thin film transistor includes: an organic thin film which includes a compound represented by the following general formula [A]:

X--[--N Ar.sup.1Ar.sup.2].sub.n [A]

where each of Ar.sup.1 and Ar.sup.2 is selected independently from unsubstituted or substituted aromatic hydrocarbon groups having 6 to 20 carbon atoms and from unsubstituted or substituted aromatic heterocyclic groups having 6 to 20 carbon atoms; and X is selected from unsubstituted or substituted condensed aromatic hydrocarbon groups having 6 to 34 carbon atoms, and the condensed aromatic hydrocarbon groups are monovalent, divalent, trivalent or tetravalent groups; and n is the natural number in the range of 1-4.

=> d 121 1-8 bib ab hit

L21 ANSWER 1 OF 17 HCAPLUS COPYRIGHT 2009 ACS on STN DUPLICATE 1  
 AN 2008:1307399 HCAPLUS  
 DN 149:502285  
 TI Blue-emitting organic electroluminescent devices  
 IN Okinaka, Keiji; Yashima, Masataka; Saitoh, Akihito; Yamada, Naoki  
 PA Canon Kabushiki Kaisha, Japan  
 SO U.S. Pat. Appl. Publ., 18pp.  
 CODEN: USXXCO

DT Patent  
 LA English

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 20080268285	A1	20081030	US 2008-103162	20080415
	JP 2008294404	A	20081204	JP 2008-65788	20080314
PRAI	JP 2007-118405	A	20070427		
	JP 2008-65788	A	20080314		

AB Blue-emitting organic electroluminescent devices comprising an anode, a cathode, and a layer which contains an organic compound interposed between the anode and the cathode, the layer which contains an organic compound including at least a light-emitting layer are described in which the light-emitting

layer contains a bipolar host having a hole mobility and an electron mobility of  $\geq 10^{-4}$  cm<sup>2</sup>/s, a light-emitting dopant, and a carrier trapping dopant, and the light-emitting dopant energy gap is less than the bipolar host energy gap which is in turn less than the carrier trapping dopant energy gap.

IT 693289-37-1 936759-90-9 955023-46-8 958265-13-9  
RL: MOA (Modifier or additive use); TEM (Technical or engineered material use); USES (Uses)

(blue-emitting organic electroluminescent devices)

IT 867151-19-7 942502-64-9  
RL: TEM (Technical or engineered material use); USES (Uses)  
(blue-emitting organic electroluminescent devices)

L21 ANSWER 2 OF 17 HCAPLUS COPYRIGHT 2009 ACS on STN

AN 2007:1177458 HCAPLUS

DN 147:469126

TI Preparation of bisanthracene derivatives as materials for organic electroluminescent devices

IN Kubota, Mineyuki

PA Idemitsu Kosan Co., Ltd., Japan

SO PCT Int. Appl., 51pp.

CODEN: PIXXD2

DT Patent

LA Japanese

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2007116828	A1	20071018	WO 2007-JP57149	20070330
	W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BH, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LY, MA, MD, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, SV, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW				
	RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, MT, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
	EP 2003107	A1	20081217	EP 2007-740585	20070330
	R: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LI, LT, LU, LV, MC, MT, NL, PL, PT, RO, SE, SI, SK, TR				
	US 20070285009	A1	20071213	US 2007-695256	20070402
	KR 2008114784	A	20081231	KR 2008-724177	20081002
PRAI	JP 2006-102335	A	20060403		
	WO 2007-JP57149	W	20070330		

OS MARPAT 147:469126

AB Claimed are the title compds. I [L = naphthalene moiety represented by A1; Ar1, Ar2 = (un)substituted aromatic hydrocarbon group, (un)substituted fused aromatic hydrocarbon group; R1 - R16 = H, (un)substituted aromatic hydrocarbon group, (un)substituted aromatic heterocyclic group, etc.; R = (un)substituted alkyl, (un)substituted cycloalkyl, (un)substituted alkoxy, etc.; m, n = integer of 0 - 5; m+n = integer of 1 - 5; p, q = integer of 0 - 5; p+q = integer of 1 - 5; r, s = integer of 0 - 4; t = integer of 0 - 6; for m, n, p, q, r, s, and t > 1, L moieties and R substituents may be the same or different]. Thus, the title compound II (Ph = phenyl) was prepared in several steps starting from p-dibromobenzene. An organic electroluminescent device containing II showed a brightness half-life of 9100 h, vs. a half-life of 3600 h for a comparison device.

RE.CNT 8 THERE ARE 8 CITED REFERENCES AVAILABLE FOR THIS RECORD

ALL CITATIONS AVAILABLE IN THE RE FORMAT

IT 7439-93-2, Lithium, uses 107984-01-0 164724-35-0 172285-75-5  
209980-53-0 462631-35-2 669016-16-4 693289-38-2  
850064-02-7 952604-32-9 952604-33-0 952604-34-1 952604-35-2

RL: TEM (Technical or engineered material use); USES (Uses)  
(preparation of bisanthracene derivs. as materials for organic  
electroluminescent devices)

L21 ANSWER 3 OF 17 HCAPLUS COPYRIGHT 2009 ACS on STN  
AN 2007:330191 HCAPLUS  
DN 146:326163  
TI Pyrene derivative and organic electroluminescence device  
IN Ito, Mitsunori; Kubota, Mineyuki; Funahashi, Masakazu  
PA Idemitsu Kosan Co., Ltd., Japan  
SO PCT Int. Appl., 92pp.  
CODEN: PIXXD2  
DT Patent  
LA Japanese  
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2007032162	A1	20070322	WO 2006-JP315687	20060808
	W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HN, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LV, LY, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW				
	RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
	EP 1932895	A1	20080618	EP 2006-782513	20060808
	R: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LI, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR				
	KR 2008052594	A	20080611	KR 2008-706391	20080314
	CN 101268167	A	20080917	CN 2006-80034089	20080317
PRAI	JP 2005-270664	A	20050916		
	WO 2006-JP315687	W	20060808		

AB An organic electroluminescence device comprising a neg. electrode and a pos. electrode and one or two or more organic thin-film layers including at least a light emitting layer, wherein the light emitting layer contains a pyrene derivative AkXmArnYoBp [X = (un)substituted pyrene; A,B = H, (un)substituted C6-50 aromatic hydrocarbon, (un)substituted C5-50 aromatic heterocycle or (un)substituted C1-30 (un)saturated alkylene; Ar = (un)substituted C6-50 aromatic

hydrocarbon or (un)substituted C5-50 aromatic heterocycle; Y = (un)substituted C1-50 condensed ring or condensed heterocycle; k, o, p = 0 - 10, m = 1 - 10, n > 3] and an amine compound Y1(Y2)NPq(NY3(Y4))r [P = (un)substituted C6-40 aromatic hydrocarbon, (un)substituted C3-40 heterocycle, (un)substituted styryl or (un)substituted C10-40 condensed aromatic; Y1-4 = (un)substituted alkylene, aralkylene, alkenylene, amino or silyl, (un)substituted arylene or unsubstituted carbonyl or ether or thio ester containing divalent heterocycle chains; q = 1 - 20, r = 0 - 3]. The organic electroluminescence device excels in heat resistance, ensuring prolonged operating life and high luminous efficiency, and is capable of emitting blue, green and red lights.

RE.CNT 26 THERE ARE 26 CITED REFERENCES AVAILABLE FOR THIS RECORD  
ALL CITATIONS AVAILABLE IN THE RE FORMAT

IT 228871-85-0 462631-35-2 494834-20-7 669059-30-7  
693289-38-2 918654-82-7 918654-86-1 918654-91-8  
928760-05-8 928760-06-9

RL: TEM (Technical or engineered material use); USES (Uses)  
(pyrene derivative and organic electroluminescence device)

L21 ANSWER 4 OF 17 HCAPLUS COPYRIGHT 2009 ACS on STN  
AN 2007:329265 HCAPLUS

DN 146:347149  
 TI Asymmetric fluorene derivative and organic electroluminescent element  
 containing the same  
 IN Ito, Mitsunori; Kubota, Mineyuki; Funahashi, Masakazu  
 PA Idemitsu Kosan Co., Ltd., Japan  
 SO PCT Int. Appl., 91pp.  
 CODEN: PIXXD2  
 DT Patent  
 LA Japanese  
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2007032161	A1	20070322	WO 2006-JP315643	20060808
	W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HN, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LV, LY, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW				
	RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
	EP 1926159	A1	20080528	EP 2006-782469	20060808
	R: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LI, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR				
	KR 2008052589	A	20080611	KR 2008-706136	20080313
	IN 2008CN01270	A	20081128	IN 2008-CN1270	20080314
	CN 101268567	A	20080917	CN 2006-80034222	20080317
PRAI	JP 2005-268968	A	20050915		
	WO 2006-JP315643	W	20060808		

AB The invention refers to an organic electroluminescent element which comprises a cathode and an anode and, sandwiched there between, one or more thin organic layers comprising a luminescent layer, wherein at least one of the thin organic layers comprises an asym. fluorene derivative compound Ar1kAFL1kBFL2nCAr2p [Ar1,2 = (un)substituted C6-50 aromatic hydrocarbon or heterocycle; A,B,C = single bond, (un)substituted alkylene, aralkylene, arylene or heteroatom, or alkylene, aralkylene alkynyl, amino, silyl, carbonyl ether or thioether having (un)substituted arylene or divalent heterocycle; FL1,2 = (un)substituted fluorenediyl; k, p = 0 - 10, k + p ≥ 1; m, n = 1 - 10, m + n ≥ 1] and an amine compound Y1Y2NPq(NY3Y4)r [P = (un)substituted C6-40 aromatic hydrocarbon, C3-40 heterocycle, styryl, or (un)substituted C10.40 condensed aromatic]. This organic electroluminescent element has excellent heat resistance and a long life and can emit any of blue, green, and red lights at a high luminescent efficiency.

RE.CNT 11 THERE ARE 11 CITED REFERENCES AVAILABLE FOR THIS RECORD  
 ALL CITATIONS AVAILABLE IN THE RE FORMAT

IT 228871-85-0 462631-35-2 494834-20-7 669059-30-7  
 693289-38-2 872050-48-1 872050-49-2 928760-05-8  
 928760-06-9

RL: TEM (Technical or engineered material use); USES (Uses)  
 (asym. fluorene derivative and organic electroluminescent element  
 containing the  
 same)

L21 ANSWER 5 OF 17 HCAPLUS COPYRIGHT 2009 ACS on STN  
 AN 2006:656144 HCAPLUS  
 DN 145:115194  
 TI Luminescent ink composition for organic electroluminescent device  
 IN Inoue, Tetsuya; Kondo, Hirofumi; Ikeda, Hidetsugu  
 PA Idemitsu Kosan Co., Ltd., Japan  
 SO PCT Int. Appl., 66 pp.

CODEN: PIXXD2  
DT Patent  
LA Japanese  
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2006070712	A1	20060706	WO 2005-JP23712	20051226
	W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, LY, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
	RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
	US 20080001123	A1	20080103	US 2007-813062	20070628
PRAI	JP 2004-380642	A	20041228		
	WO 2005-JP23712	W	20051226		

OS MARPAT 145:115194

AB Disclosed is a luminescent ink composition for organic EL devices which contains a

low-mol. weight material of high solubility and can be easily formed into a thin film by a wet process. This ink composition enables to form an organic thin film

using a luminescent low-mol. weight material with high productivity by a wet process. Specifically disclosed is a luminescent ink composition for organic electroluminescent devices which is composed of the following components (A), (B) and (C): (A) an anthracene derivative, (B) a fused aromatic ring compound

having a substituted arylamino group and/or a styryl derivative having a substituted arylamino group (C) an organic solvent.

RE.CNT 13 THERE ARE 13 CITED REFERENCES AVAILABLE FOR THIS RECORD  
ALL CITATIONS AVAILABLE IN THE RE FORMAT

IT 2085-33-8, Tris(8-quinolinolato)aluminum 55035-42-2 312497-12-4  
663954-33-4 667940-34-3 667940-36-5 693289-37-1  
853945-27-4 853945-29-6 853945-36-5 855828-33-0 896457-49-1  
RL: DEV (Device component use); USES (Uses)  
(luminescent ink compns. for organic electroluminescent devices)

L21 ANSWER 6 OF 17 HCAPLUS COPYRIGHT 2009 ACS on STN  
AN 2006:463243 HCAPLUS  
DN 144:479288  
TI Organic electroluminescent element  
IN Funahashi, Masakazu; Ito, Mitsunori; Kawamura, Hisayuki  
PA Idemitsu Kosan Co., Ltd., Japan  
SO PCT Int. Appl., 86 pp.  
CODEN: PIXXD2

DT Patent  
LA Japanese  
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2006051649	A1	20060518	WO 2005-JP16749	20050912
	W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, KE, KG, KM, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				

RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE,  
IS, IT, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ,  
CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH,  
GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY,  
KG, KZ, MD, RU, TJ, TM

JP 2006140235 A 20060601 JP 2004-327019 20041110

EP 1811585 A1 20070725 EP 2005-782401 20050912

R: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE,  
IS, IT, LI, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR

CN 101057348 A 20071017 CN 2005-80038089 20050912

US 20060110623 A1 20060525 US 2005-269661 20051109

KR 2007084110 A 20070824 KR 2007-710523 20070509

IN 2007CN02009 A 20070907 IN 2007-CN2009 20070510

PRAI JP 2004-327019 A 20041110

WO 2005-JP16749 W 20050912

OS MARPAT 144:479288

AB An organic electroluminescent element which has excellent heat resistance, a long life, and a high luminescent efficiency and can emit a blue to red light. The organic electroluminescent element comprises a cathode, an anode, and an organic thin film sandwiched there-between which comprises one or more layers at least including a luminescent layer, the luminescent layer comprising a fluorene compound having a specific structure and an amine compound having a specific structure.

RE.CNT 9 THERE ARE 9 CITED REFERENCES AVAILABLE FOR THIS RECORD

ALL CITATIONS AVAILABLE IN THE RE FORMAT

IT 607739-80-0 607739-82-2 872705-53-8 872705-55-0

886456-80-0 886456-81-1 886456-82-2, 1,2':7',1''-Terpyrene

886456-89-9

RL: DEV (Device component use); USES (Uses)

(organic electroluminescent devices having excellent heat resistance)

IT 177799-15-4 279672-22-9 462631-35-2 494834-20-7

693289-38-2 886456-83-3 886456-84-4 886456-85-5

886456-88-8

RL: MOA (Modifier or additive use); USES (Uses)

(organic electroluminescent devices having excellent heat resistance)

L21 ANSWER 7 OF 17 HCAPLUS COPYRIGHT 2009 ACS on STN.

AN 2005:1328598 HCAPLUS

DN 144:60767

TI Anthracene derivatives and organic electroluminescent device using them

IN Kubota, Mineyuki; Funahashi, Masakazu; Hosokawa, Chishio

PA Idemitsu Kosan Co., Ltd., Japan

SO PCT Int. Appl., 54 pp.

CODEN: PIXXD2

DT Patent

LA Japanese

FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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PI WO 2005121057	A1	20051222	WO 2005-JP9168	20050519
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W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH,  
CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD,  
GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KP, KR, KZ,  
LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA,  
NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK,  
SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU,  
ZA, ZM, ZW

RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM,  
AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK,  
EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT,  
RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML,  
MR, NE, SN, TD, TG

CN 1842509 A 20061004 CN 2005-80001004 20050519

EP 1754696 A1 20070221 EP 2005-741491 20050519

R: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE,



IS, IT, LI, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR

US 20060154076	A1	20060713	US 2005-282818	20051121
KR 2007029107	A	20070313	KR 2006-706239	20060330
IN 2006CN01094	A	20070817	IN 2006-CN1094	20060330
PRAI JP 2004-171660	A	20040609		
WO 2005-JP9168	W	20050519		

OS MARPAT 144:60767

AB Disclosed is an anthracene derivative having a specific asym. structure. Also disclosed is an organic electroluminescent device wherein an organic thin film layer composed of one or more layers including at least a light-emitting layer is interposed between a cathode and an anode and at least one layer of the organic thin film layer contains the anthracene derivative of a specific structure by itself or as a component of a mixture. By using such an anthracene derivative, there can be realized an organic electroluminescent device having a high color purity and a long life.

RE.CNT 3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD  
ALL CITATIONS AVAILABLE IN THE RE FORMAT

IT 2085-33-8, Alq3 164724-35-0 209980-53-0 462631-35-2  
669016-16-4 693289-38-2  
RL: DEV (Device component use); USES (Uses)  
(anthracene derivative and organic electroluminescent device using them)

L21 ANSWER 8 OF 17 HCAPLUS COPYRIGHT 2009 ACS on STN

AN 2000:457176 HCAPLUS

DN 133:81385

TI Organic electroluminescent devices

IN Hosokawa, Chishio; Funehashi, Masakazu; Kawamura, Hisayuki; Arai, Hiromasa; Koga, Hidetoshi; Ikeda, Hidetsugu

PA Idemitsu Kosan Co., Ltd., Japan

SO PCT Int. Appl., 167 pp.  
CODEN: PIXXD2

DT Patent

LA Japanese

FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2000039247	A1	20000706	WO 1999-JP7390	19991228
W: CN, KR, US				
RW: AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE				
JP 2001052868	A	20010223	JP 1999-223056	19990805
JP 2001131541	A	20010515	JP 1999-347848	19991207
JP 4117093	B2	20080709		
EP 1061112	A1	20001220	EP 1999-961465	19991228
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, FI				
CN 1219747	C	20050921	CN 1999-803419	19991228
CN 1721499	A	20060118	CN 2005-10084528	19991228
EP 1666561	A1	20060607	EP 2006-110875	19991228
R: DE, FR, GB				
EP 1775335	A2	20070418	EP 2007-100259	19991228
EP 1775335	A3	20080227		
R: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LI, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR, AL, BA, HR, MK, YU				
US 6743948	B1	20040601	US 2000-623057	20000825
US 20030072966	A1	20030417	US 2002-179179	20020626
US 6951693	B2	20051004		
US 20050038296	A1	20050217	US 2004-814121	20040401
US 20060189828	A1	20060824	US 2006-344604	20060201
KR 2006061856	A	20060608	KR 2006-707392	20060417
KR 2006063987	A	20060612	KR 2006-707393	20060417
KR 743337	B1	20070726	KR 2006-718289	20060907
US 20070142671	A1	20070621	US 2007-624255	20070118

KR 2007032047	A	20070320	KR 2007-702875	20070205
KR 785570	B1	20071213		
KR 835021	B1	20080603	KR 2007-713672	20070615
KR 2007112893	A	20071127	KR 2007-725201	20071030
KR 869622	B1	20081121		
JP 2008223026	A	20080925	JP 2008-64481	20080313
JP 2008239988	A	20081009	JP 2008-64474	20080313
KR 2008064208	A	20080708	KR 2008-715376	20080624
KR 869615	B1	20081121		
PRAI JP 1998-373921	A	19981228		
JP 1999-140103	A	19990520		
JP 1999-223056	A	19990805		
JP 1999-234652	A	19990820		
JP 1999-347848	A	19991207		
CN 1999-803419	A3	19991228		
EP 1999-961465	A3	19991228		
WO 1999-JP7390	W	19991228		
KR 2000-709371	A3	20000824		
US 2000-623057	A3	20000825		
US 2004-814121	B1	20040401		
US 2006-344604	B1	20060201		
KR 2006-707392	A3	20060417		
KR 2006-718289	A3	20060907		
KR 2007-702875	A3	20070205		
KR 2007-713672	A3	20070615		
KR 2007-725201	A3	20071030		

OS MARPAT 133:81385

AB The devices having a high luminescent efficiency, a long life and a high heat resistance comprise I ( A = (substituted) C22-60 arylene; X1-4 = (substituted) C6-30 arylene; Y1-4 = II; a-d = 0-2; R1-4 = H, (substituted) alkyl, (substituted) aryl, cyano; R3 may be bonded to R4 to form a triple bond; Z = (substituted) aryl; n = 0, 1).

RE.CNT 16 THERE ARE 16 CITED REFERENCES AVAILABLE FOR THIS RECORD

ALL CITATIONS AVAILABLE IN THE RE FORMAT

IT 2085-33-8, Tris(8-quinolinolato)aluminum 12789-79-6 50926-11-9, ITO  
 65181-78-4, TPD 142289-08-5, 4,4'-Bis(2,2-diphenylvinyl)biphenyl  
 177799-11-0 181367-28-2 186412-15-7 205930-46-7 221453-38-9  
 226086-76-6 239475-90-2 279671-24-8 279671-53-3 279671-54-4  
 279671-56-6 279671-57-7 279672-13-8 279672-14-9 279672-15-0  
 279672-16-1 279672-17-2 279672-18-3 279672-19-4  
 279672-20-7 279672-21-8 279672-22-9 279672-23-0  
 279672-24-1 279672-25-2 279672-27-4 279672-30-9  
 279672-32-1 279672-34-3 279672-35-4 279672-37-6 279672-39-8  
 279672-41-2 279672-42-3 279672-43-4 279672-44-5 279672-45-6  
 279672-46-7 279672-47-8 279672-48-9 279672-49-0 279672-50-3  
 279672-51-4 279672-52-5 279672-53-6 279672-54-7 279672-55-8  
 279672-56-9 279672-57-0 279672-58-1

RL: DEV (Device component use); USES (Uses)  
 (organic electroluminescent devices)

=> d 121 9-17 bib ab

L21 ANSWER 9 OF 17 USPATFULL on STN

AN 2008:1957 USPATFULL

TI Luminescent Ink Composition for Organic Electroluminescent Device

IN Inoue, Tetsuya, Chiba, JAPAN

Kondo, Hirofumi, Chiba, JAPAN

Ikeda, Hidetsugu, Chiba, JAPAN

PA IDEMITSU KOSAN CO., LTD, Chiyoda-ku, JAPAN, 100-8321 (non-U.S. corporation)

PI US 20080001123 A1 20080103

AI US 2005-813062 A1 20051226 (11)

WO 2005-JP23712 20051226

20070628 PCT 371 date

PRAI JP 2004-380642 20041228  
DT Utility  
FS APPLICATION  
LREP OBLON, SPIVAK, MCCLELLAND MAIER & NEUSTADT, P.C., 1940 DUKE STREET,  
ALEXANDRIA, VA, 22314, US  
CLMN Number of Claims: 12  
ECL Exemplary Claim: 1  
DRWN 1 Drawing Page(s)  
LN.CNT 1293

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB A luminescent ink composition for an organic EL device which can form thin films by a wet process easily due to a high solubility of a low-molecular material is provided in order to form an organic thin film containing a luminescent low-molecular material by a wet method with a high productivity. A luminescent ink composition for an organic electroluminescent device comprising: (A) an anthracene derivative represented by the following formula (1); (B) a condensed aromatic ring compound substituted with an arylamino group and/or a styryl derivative substituted with an arylamino group; and (C) an organic solvent.  
##STR1##

L21 ANSWER 10 OF 17 USPATFULL on STN  
AN 2007:326508 USPATFULL  
TI BISANTHRACENE DERIVATIVE AND ORGANIC ELECTROLUMINESCENCE DEVICE USING THE SAME  
IN KUBOTA, Mineyuki, Chiba, JAPAN  
PA Idemitsu Kosan Co., Ltd., Chiyoda-ku, JAPAN (non-U.S. corporation)  
PI US 20070285009 A1 20071213  
AI US 2007-695256 A1 20070402 (11)  
PRAI JP 2006-102335 20060403  
DT Utility  
FS APPLICATION  
LREP OBLON, SPIVAK, MCCLELLAND MAIER & NEUSTADT, P.C., 1940 DUKE STREET,  
ALEXANDRIA, VA, 22314, US  
CLMN Number of Claims: 8  
ECL Exemplary Claim: 1  
DRWN No Drawings  
LN.CNT 1500

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB A bisanthracene derivative having a specific structure in which two anthracene groups are bonded via a bonding group composed of naphthylene group and p-phenylene group, and an organic electroluminescence device having an organic thin film layer, which has one layer or a plurality of layers including at least a light emitting layer, is disposed between a cathode and an anode and contains the bisanthracene derivatives singly or as a component of a mixture are provided. The electroluminescence device has a long life.

L21 ANSWER 11 OF 17 USPATFULL on STN  
AN 2007:163114 USPATFULL  
TI ORGANIC ELECTROLUMINESCENCE DEVICE  
IN Hosokawa, Chishio, Chiba-ken, JAPAN  
Funahashi, Masakazu, Chiba-ken, JAPAN.  
Kawamura, Hisayuki, Chiba-ken, JAPAN  
Arai, Hiromasa, Chiba-ken, JAPAN  
Koga, Hidetoshi, Chiba-ken, JAPAN  
Ikeda, Hidetsugu, Chiba-ken, JAPAN  
PA Idemitsu Kosan Co., Ltd, Tokyo, JAPAN (non-U.S. corporation)  
PI US 20070142671 A1 20070621  
AI US 2007-624255 A1 20070118 (11)  
RLI Continuation of Ser. No. US 2006-344604, filed on 1 Feb 2006, ABANDONED  
Continuation of Ser. No. US 2004-814121, filed on 1 Apr 2004, ABANDONED  
Division of Ser. No. US 2000-623057, filed on 25 Aug 2000, GRANTED, Pat.  
No. US 6743948 A 371 of International Ser. No. WO 1999-JP7390, filed on  
28 Dec 1999

PRAI JP 1998-373921 19981228  
JP 1999-140103 19990520  
JP 1999-223056 19990805  
JP 1999-234652 19990820  
JP 1999-347848 19991207  
DT Utility  
FS APPLICATION  
LREP OBLON, SPIVAK, MCCLELLAND, MAIER & NEUSTADT, P.C., 1940 DUKE STREET,  
ALEXANDRIA, VA, 22314, US  
CLMN Number of Claims: 9  
ECL Exemplary Claim: 1  
DRWN 3 Drawing Page(s)  
LN.CNT 3057  
CAS INDEXING IS AVAILABLE FOR THIS PATENT.  
AB Materials for organic electroluminescence devices are represented by  
following general formula [1]: ##STR1##

wherein A represents a chrysene group, X.sup.1 to X.sup.4 each independently  
represent a substituted or unsubstituted arylene group having 6 to 30  
carbon atoms, X.sup.1 and X.sup.2 may be bonded to each other, X.sup.3  
and X.sup.4 may be bonded to each other, Y.sup.1 to Y.sup.4 each  
independently represent an organic group represented by general formula  
[2], a to d each represent an integer of 0 to 2 and, a+b+c+d≥0;  
general formula [2] being: ##STR2##

wherein R.sup.1 to R.sup.4 each independently represent hydrogen atom, a  
substituted or unsubstituted alkyl group having 1 to 20 carbon atoms, a  
substituted or unsubstituted aryl group having 6 to 20 carbon atoms,  
cyano group or form a triple bond by a linkage of R.sup.1 and R.sup.2 or  
R.sup.3 and R.sup.4, Z represents a substituted or unsubstituted aryl  
group having 6 to 20 carbon atoms and n represents 0 or 1.

L21 ANSWER 12 OF 17 USPATFULL on STN  
AN 2006:222541 USPATFULL  
TI Organic electroluminescence device  
IN Hosokawa, Chishio, Chiba-ken, JAPAN  
Funahashi, Masakazu, Chiba-ken, JAPAN  
Kawamura, Hisayuki, Chiba-ken, JAPAN  
Arai, Hiromasa, Chiba-ken, JAPAN  
Koga, Hidetoshi, Chiba-ken, JAPAN  
Ikeda, Hidetsugu, Chiba-ken, JAPAN  
PA Idemitsu Kosan Co., Ltd., Tokyo, JAPAN (non-U.S. corporation)  
PI US 20060189828 A1 20060824  
AI US 2006-344604 A1 20060201 (11)  
RLI Continuation of Ser. No. US 2004-814121, filed on 1 Apr 2004, ABANDONED  
Division of Ser. No. US 2000-623057, filed on 25 Aug 2000, GRANTED, Pat.  
No. US 6743948 A 371 of International Ser. No. WO 1999-JP7390, filed on  
28 Dec 1999  
PRAI JP 1998-373921 19981228  
JP 1999-140103 19990520  
JP 1999-223056 19990805  
JP 1999-234652 19990820  
JP 1999-347848 19991207  
DT Utility  
FS APPLICATION  
LREP OBLON, SPIVAK, MCCLELLAND, MAIER & NEUSTADT, P.C., 1940 DUKE STREET,  
ALEXANDRIA, VA, 22314, US  
CLMN Number of Claims: 9  
ECL Exemplary Claim: 1  
DRWN 3 Drawing Page(s)  
LN.CNT 3049  
CAS INDEXING IS AVAILABLE FOR THIS PATENT.  
AB Materials for organic electroluminescence devices are represented by  
following general formula [1]: ##STR1##

wherein A represents a chrysene group, X.sup.1 to X.sup.4 each independently

represent a substituted or unsubstituted arylene group having 6 to 30 carbon atoms, X.sup.1 and X.sup.2 may be bonded to each other, X.sup.3 and X.sup.4 may be bonded to each other, Y.sup.1 to Y.sup.4 each independently represent an organic group represented by general formula [2], a to d each represent an integer of 0 to 2 and, a+b+c+d≥0; general formula [2] being: ##STR2##

wherein R.sup.1 to R.sup.4 each independently represent hydrogen atom, a substituted or unsubstituted alkyl group having 1 to 20 carbon atoms, a substituted or unsubstituted aryl group having 6 to 20 carbon atoms, cyano group or form a triple bond by a linkage of R.sup.1 and R.sup.2 or R.sup.3 and R.sup.4, Z represents a substituted or unsubstituted aryl group having 6 to 20 carbon atoms and n represents 0 or 1.

L21 ANSWER 13 OF 17 USPATFULL on STN

AN 2006:181681 USPATFULL

TI Anthracene derivative and organic electroluminescence device employing the same

IN Kubota, Mineyuki, Chiba, JAPAN  
Funahashi, Masakazu, Chiba, JAPAN  
Hosokawa, Chishio, Chiba, JAPAN

PA Idemitsu Kosan Co., Ltd., Tokyo, JAPAN (non-U.S. corporation)

PI US 20060154076 A1 20060713

AI US 2005-282818 A1 20051121 (11)

RLI Continuation of Ser. No. WO 2005-JP9168, filed on 19 May 2005, UNKNOWN

PRAI JP 2004-171660 20040609

DT Utility

FS APPLICATION

LREP OBLON, SPIVAK, MCCLELLAND, MAIER & NEUSTADT, P.C., 1940 DUKE STREET,  
ALEXANDRIA, VA, 22314, US

CLMN Number of Claims: 9

ECL Exemplary Claim: 1

DRWN No Drawings

LN.CNT 1480

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB An anthracene derivative with a specified asymmetrical type structure.  
An organic electroluminescence device which comprises at least one organic thin film layer including a light emitting layer sandwiched between a pair of electrode consisting of an anode and a cathode, wherein at least one of the organic thin film layer comprises the anthracene derivative. An organic electroluminescence device which emits blue light of enhanced purity and has a long lifetime is provided.

L21 ANSWER 14 OF 17 USPATFULL on STN

AN 2006:130985 USPATFULL

TI Organic electroluminescence devices

IN Funahashi, Masakazu, Chiba, JAPAN  
Ito, Mitsunori, Chiba, JAPAN  
Kawamura, Hisayuki, Chiba, JAPAN

PA Idemitsu Kosan Co., LTD., Chiyoda-ku, JAPAN (non-U.S. corporation)

PI US 20060110623 A1 20060525

AI US 2005-269661 A1 20051109 (11)

PRAI JP 2004-327019 20041110

DT Utility

FS APPLICATION

LREP STEPTOE & JOHNSON LLP, 1330 CONNECTICUT AVENUE, N.W., WASHINGTON, DC,  
20036, US

CLMN Number of Claims: 12

ECL Exemplary Claim: 1

DRWN No Drawings

LN.CNT 1644

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB An organic electro-luminescent device exhibiting an excellent heat resistance, a long serving life and a great efficiency of light emission and producing a light emission ranging from a blue light to a red light. The organic electroluminescent device comprising one or more thin-film

layers which contain at least a light emitting layer and are interposed between a cathode and an anode, wherein the light emitting layer contains an amine compound represented by any of the following general formula (A) and a fluorene-based compound represented by any of the following general formula (B).

L21 ANSWER 15 OF 17 USPATFULL on STN  
AN 2005:44562 USPATFULL  
TI Organic electrolumescence device  
IN Hosokawa, Chishio, Chiba-ken, JAPAN  
Funahashi, Masakazu, Chiba-ken, JAPAN  
Kawamura, Hisayuki, Chiba-ken, JAPAN  
Arai, Hiromasa, Chiba-ken, JAPAN  
Koga, Hidetoshi, Chiba-ken, JAPAN  
Ikeda, Hidetsugu, Chiba-ken, JAPAN  
PA Idemitsu Kosan Co., Ltd., Tokyo, JAPAN (non-U.S. corporation)  
PI US 20050038296 A1 20050217  
AI US 2004-814121 A1 20040401 (10)  
RLI Division of Ser. No. US 2000-623057, filed on 25 Aug 2000, GRANTED, Pat. No. US 6743948 A 371 of International Ser. No. WO 1999-JP7390, filed on 28 Dec 1999, UNKNOWN  
PRAI JP 1998-373921 19981228  
JP 1999-140103 19990520  
JP 1999-223056 19990805  
JP 1999-234652 19990820  
JP 1999-347848 19991207  
DT Utility  
FS APPLICATION  
LREP OBLON, SPIVAK, MCCLELLAND, MAIER & NEUSTADT, P.C., 1940 DUKE STREET, ALEXANDRIA, VA, 22314  
CLMN Number of Claims: 10  
ECL Exemplary Claim: CLM-01-23  
DRWN 3 Drawing Page(s)  
LN.CNT 3123  
CAS INDEXING IS AVAILABLE FOR THIS PATENT.  
AB Materials for organic electroluminescence devices are represented by following general formula [1]:

general formula [1] ##STR1##

wherein A represents a chrysene group X<sup>sup.1</sup> to X<sup>sup.4</sup> each independently represent a substituted or unsubstituted arylene group having 6 to 30 carbon atoms, X<sup>sup.1</sup> and X<sup>sup.2</sup> may be bonded to each other, X<sup>sup.3</sup> and X<sup>sup.4</sup> may be bonded to each other, Y<sup>sup.1</sup> to Y<sup>sup.4</sup> each independently represent an organic group represented by general formula [2], a to d each represent an integer of 0 to 2 and, a+b+c+d≥0;

general formula [2] being:

general formula [2] ##STR2##

wherein R<sup>sup.1</sup> to R<sup>sup.4</sup> each independently represent hydrogen atom, a substituted or unsubstituted alkyl group having 1 to 20 carbon atoms, a substituted or unsubstituted aryl group having 6 to 20 carbon atoms, cyano group or form a triple bond by a linkage of R<sup>sup.1</sup> and R<sup>sup.2</sup> or R<sup>sup.3</sup> and R<sup>sup.4</sup>, Z represents a substituted or unsubstituted aryl group having 6 to 20 carbon atoms and n represents 0 or 1.

L21 ANSWER 16 OF 17 USPATFULL on STN  
AN 2004:135758 USPATFULL  
TI Organic electroluminescent device  
IN Hosokawa, Chishio, Chiba-ken, JAPAN  
Funahashi, Masakazu, Chiba-ken, JAPAN  
Kawamura, Hisayuki, Chiba-ken, JAPAN

Arai, Hiromasa, Chiba-ken, JAPAN  
 Koga, Hidetoshi, Chiba-ken, JAPAN  
 Ikeda, Hidetsugu, Chiba-ken, JAPAN  
 PA Idemitsu Kosan Co., Ltd., Tokyo, JAPAN (non-U.S. corporation)  
 PI US 6743948 B1 20040601  
 WO 2000039247 20000706  
 AI US 2000-623057 20000825 (9)  
 WO 1999-JP7390 19991228  
 PRAI JP 1998-373921 19981228  
 JP 1999-140103 19990520  
 JP 1999-223056 19990805  
 JP 1999-234652 19990820  
 JP 1999-347848 19991207  
 DT Utility  
 FS GRANTED  
 EXNAM Primary Examiner: Yamnitzky, Marie  
 LREP Oblon, Spivak, McClelland, Maier & Neustadt, P.C.  
 CLMN Number of Claims: 2  
 ECL Exemplary Claim: 1  
 DRWN 3 Drawing Figure(s); 3 Drawing Page(s)  
 LN.CNT 3006  
 CAS INDEXING IS AVAILABLE FOR THIS PATENT.  
 AB Materials for organic electroluminescence devices are represented by following general formula [1]: ##STR1##

wherein B represents a substituted or unsubstituted arylene group having 6 to 60 carbon atoms, X.sup.1 to X.sup.4 each independently represent a substituted or unsubstituted arylene group having 6 to 30 carbon atoms, X.sup.1 and X.sup.2 may be bonded to each other, X.sup.3 and X.sup.4 may be bonded to each other, Y.sup.1 to Y.sup.4 each independently represent an organic group represented by general formula [2], a to d each represent an integer of 0 to 2 and, when the arylene group represented by B has 26 or less carbon atoms, a+b+c+d>0 and at least one of the groups represented by B, X.sup.1, X.sup.2, X.sup.3 and X.sup.4 has a chrysene nucleus; general formula [2] being: ##STR2##

L21 ANSWER 17 OF 17 USPATFULL on STN  
 AN 2003:106055 USPATFULL  
 TI Organic electroluminescence device  
 IN Hosokawa, Chishio, Chiba-ken, JAPAN  
 Funahashi, Masakazu, Chiba-ken, JAPAN  
 Kawamura, Hisayuki, Chiba-ken, JAPAN  
 Arai, Hiromasa, Chiba-ken, JAPAN  
 Koga, Hidetoshi, Chiba-ken, JAPAN  
 Ikeda, Hidetsugu, Chiba-ken, JAPAN  
 PA Idemitsu Kosan Co., Ltd., Tokyo, JAPAN (non-U.S. corporation)  
 PI US 20030072966 A1 20030417  
 US 6951693 B2 20051004  
 AI US 2002-179179 A1 20020626 (10)  
 RLI Division of Ser. No. US 2000-623057, filed on 25 Aug 2000, PENDING A 371 of International Ser. No. WO 1999-JP7390, filed on 28 Dec 1999, UNKNOWN  
 PRAI JP 1998-373921 19981228  
 JP 1999-140103 19990520  
 JP 1999-223056 19990805  
 JP 1999-234652 19990820  
 JP 1999-347848 19991212  
 DT Utility  
 FS APPLICATION  
 LREP OBLON SPIVAK MCCLELLAND MAIER & NEUSTADT PC, FOURTH FLOOR, 1755 JEFFERSON DAVIS HIGHWAY, ARLINGTON, VA, 22202  
 CLMN Number of Claims: 23  
 ECL Exemplary Claim: 1  
 DRWN 3 Drawing Page(s)  
 LN.CNT 3316  
 CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB Materials for organic electroluminescence devices and organic electroluminescence devices which exhibit high efficiency of light emission and have a long life and excellent heat resistance, novel compounds and processes for producing the materials for organic electroluminescence devices are provided.

The material for organic electroluminescence devices is represented by following general formula [1]:

general formula [1] ##STR1##

wherein A represents a substituted or unsubstituted arylene group having 22 to 60 carbon atoms, X<sup>sup.1</sup> to X<sup>sup.4</sup> each independently represent a substituted or unsubstituted arylene group having 6 to 30 carbon atoms, X<sup>sup.1</sup> and X<sup>sup.2</sup> may be bonded to each other, X<sup>sup.3</sup> and X<sup>sup.4</sup> may be bonded to each other, Y<sup>sup.1</sup> to Y<sup>sup.4</sup> each independently represent an organic group represented by general formula [2], a to d each represent an integer of 0 to 2 and, when the arylene group represented by A has 26 or less carbon atoms, a+b+c+d>0 and the arylene group does not contain two or more anthracene nucleus; general formula [2] being:

general formula [2] ##STR2##

wherein R<sup>sup.1</sup> to R<sup>sup.4</sup> each independently represent hydrogen atom, a substituted or unsubstituted alkyl group having 1 to 20 carbon atoms, a substituted or unsubstituted aryl group having 6 to 20 carbon atoms, cyano group or form a triple bond by a linkage of R<sup>sup.1</sup> and R<sup>sup.2</sup> or R<sup>sup.3</sup> and R<sup>sup.4</sup>, Z represents a substituted or unsubstituted aryl group having 6 to 20 carbon atoms and n represents 0 or 1.

=> dis his

(FILE 'HOME' ENTERED AT 13:20:06 ON 06 JAN 2009)

FILE 'REGISTRY' ENTERED AT 13:20:14 ON 06 JAN 2009

L1	STRUCTURE UPLOADED
L2	STRUCTURE UPLOADED
L3	STRUCTURE UPLOADED
L4	STRUCTURE UPLOADED
L5	144 S L1 SSS FUL
L6	2092 S L2 SSS FUL
L7	3224 S L3 SSS FUL
L8	3345 POLYLINK L7
L9	97 S L4 SSS FUL
L10	97 POLYLINK L9

FILE 'HCAPLUS, USPATFULL' ENTERED AT 13:23:50 ON 06 JAN 2009

FILE 'HCAPLUS'

L11 4 S L5 AND L6

FILE 'USPATFULL'

L12 6 S L5 AND L6

TOTAL FOR ALL FILES

L13 10 S L5 AND L6

FILE 'HCAPLUS'

L14 8 S L5 AND L8

FILE 'USPATFULL'

L15 10 S L5 AND L8

TOTAL FOR ALL FILES

L16 18 S L5 AND L8

FILE 'HCAPLUS'

L17 0 S L5 AND L10

FILE 'USPATFULL'

L18 0 S L5 AND L10

TOTAL FOR ALL FILES



L19 0 S L5 AND L10  
L20 10 DUP REMOVE L13 (0 DUPLICATES REMOVED)  
L21 17 DUP REMOVE L16 (1 DUPLICATE REMOVED)

=> log h

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	206.02	1015.57
DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE ENTRY	TOTAL SESSION
CA SUBSCRIBER PRICE	-9.84	-9.84

SESSION WILL BE HELD FOR 120 MINUTES  
STN INTERNATIONAL SESSION SUSPENDED AT 13:27:18 ON 06 JAN 2009

Connecting via Winsock to STN

Welcome to STN International! Enter x:x

LOGINID:ssptabac1774

PASSWORD:

\* \* \* \* \* RECONNECTED TO STN INTERNATIONAL \* \* \* \* \*  
SESSION RESUMED IN FILE 'HCAPLUS', 'USPATFULL' AT 13:30:05 ON 06 JAN 2009  
FILE 'HCAPLUS' ENTERED AT 13:30:05 ON 06 JAN 2009  
COPYRIGHT (C) 2009 AMERICAN CHEMICAL SOCIETY (ACS)  
FILE 'USPATFULL' ENTERED AT 13:30:05 ON 06 JAN 2009  
CA INDEXING COPYRIGHT (C) 2009 AMERICAN CHEMICAL SOCIETY (ACS)

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	206.02	1015.57
DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE ENTRY	TOTAL SESSION
CA SUBSCRIBER PRICE	-9.84	-9.84

=> d 11,12,13,14

L2 IS NOT VALID HERE

For an explanation, enter "HELP DISPLAY".

=> d his

(FILE 'HOME' ENTERED AT 13:20:06 ON 06 JAN 2009)

FILE 'REGISTRY' ENTERED AT 13:20:14 ON 06 JAN 2009

L1 STRUCTURE UPLOADED  
L2 STRUCTURE UPLOADED  
L3 STRUCTURE UPLOADED  
L4 STRUCTURE UPLOADED  
L5 144 S L1 SSS FUL  
L6 2092 S L2 SSS FUL  
L7 3224 S L3 SSS FUL  
L8 3345 POLYLINK L7  
L9 97 S L4 SSS FUL  
L10 97 POLYLINK L9

FILE 'HCAPLUS', 'USPATFULL' ENTERED AT 13:23:50 ON 06 JAN 2009

FILE 'HCAPLUS'

L11 4 S L5 AND L6

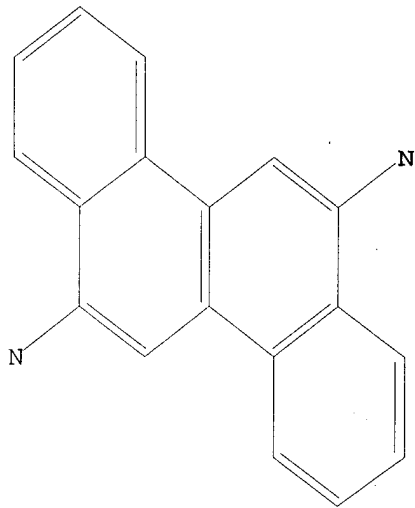
FILE 'USPATFULL'

L12            6 S L5 AND L6  
           TOTAL FOR ALL FILES  
 L13            10 S L5 AND L6  
           FILE 'HCAPLUS'  
 L14            8 S L5 AND L8  
           FILE 'USPATFULL'  
 L15            10 S L5 AND L8  
           TOTAL FOR ALL FILES  
 L16            18 S L5 AND L8  
           FILE 'HCAPLUS'  
 L17            0 S L5 AND L10  
           FILE 'USPATFULL'  
 L18            0 S L5 AND L10  
           TOTAL FOR ALL FILES  
 L19            0 S L5 AND L10  
 L20            10 DUP REMOVE L13 (0 DUPLICATES REMOVED)  
 L21            17 DUP REMOVE L16 (1 DUPLICATE REMOVED)

=> d 11

L1 HAS NO ANSWERS

L1            STR

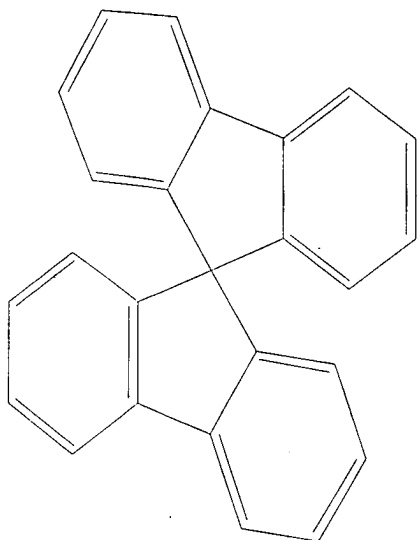


Structure attributes must be viewed using STN Express query preparation.

=> d 12

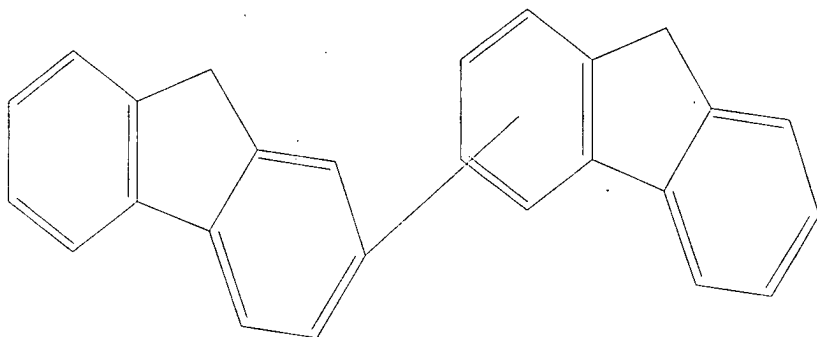
L2 HAS NO ANSWERS

L2            STR



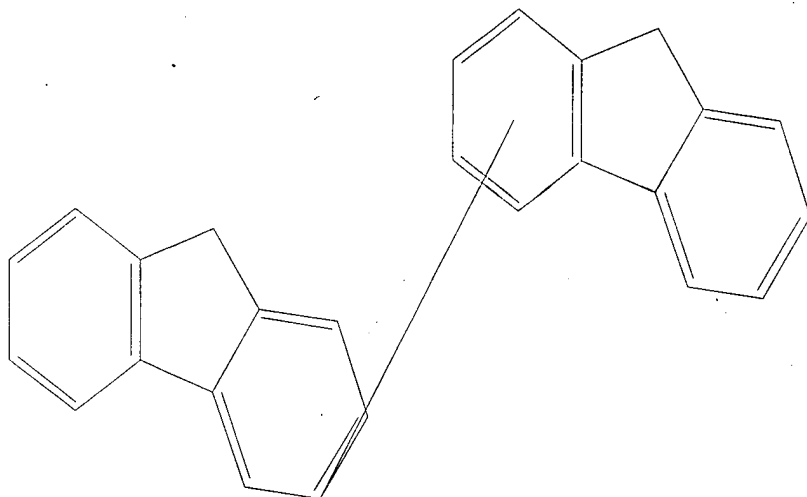
Structure attributes must be viewed using STN Express query preparation.

=> d 13  
 L3 HAS NO ANSWERS  
 L3 STR



Structure attributes must be viewed using STN Express query preparation.

=> d 14  
 L4 HAS NO ANSWERS  
 L4 STR



Structure attributes must be viewed using STN Express query preparation.

=> log h

COST IN U.S. DOLLARS

SINCE FILE	TOTAL
ENTRY	SESSION
210.40	1019.95

FULL ESTIMATED COST

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)

SINCE FILE	TOTAL
ENTRY	SESSION
-9.84	-9.84

CA SUBSCRIBER PRICE

SESSION WILL BE HELD FOR 120 MINUTES

STN INTERNATIONAL SESSION SUSPENDED AT 13:30:53 ON 06 JAN 2009